## APPENDIX N BULK MILK TANKER SCREENING TEST FORM

## IDEXX - New SNAP® BETA LACTAM

## For Raw Bovine Milk

## GENERAL REQUIREMENTS

1.	See	App	pendix N General Requirements form items 1-8 & 13			
			SAMPLES			
2.	See	App	pendix N General Requirements (GR) form item 9			
			APPARATUS & REAGENTS			
3.	Equ:	uipment				
	a.		ter block with SNAP inset thermostatically atrolled at 45±5C			
		1.	Temperature checked by placing standardized thermometer in tube containing liquid (bulb submersed) in heating unit, records maintained			
		2.	Or, use 6 inch partial immersion thermometer placed directly into small thermometer well in middle of heating unit, records maintained			
	b.	Single use 450 µL pipet with indicator line to measure amount of sample, supplied by manufacturer (screening only)				
			ted volume pipettor to dispense 450 μL (see App. R item 7)			
	d.	SNAP Kit				
		Lot	: # Exp Date			
	e.	Sample tubes containing reagent pellet  Kits received refrigerated				
	f.					
	g.	Store kits at 0-7C				
	h.	Timer				

New Snap -1- Rev. 6/03

	i I	DEXX Reader for SNAP devices, with printer or data download capability			
4.	Cc	ontrols [FROZEN STANDARDS NOT ALLOWED]			
	a.	Non frozen positive control only, 5.0 ppb Penicillin G			
	b.	Store according to label instructions			
		Mfg Lot # Exp. Date			
	c.	Re-hydrate as per manufacturer's instructions			
	d.	Test for suitability each time prepared, must produce appropriate reaction, records maintained			
	e.	Store control at 0-4.4C for no more than 2 days. Do not freeze			
5.	Pho	Phosphate Buffer			
	a.	Dissolve 2 grams Potassium dibasic phosphate and 8.0 grams of mono-basic potassium phosphate and make up to 1 liter. pH $6.0 \pm 0.05$			
6.	Na	or K Penicillin G Standard (USP or Human injectable)			
	a.	Store according to label instructions			
		Mfg Lot # Exp			
	b.	Use a 4 or 5 place analytical balance to weigh out the penicillin G			
	C.	Calculate the equivalent penicillin G base by using the appropriate correction factor, potency in IU/mg ÷ potency of Pen G (1782 IU/mg)(ex. K PenG potency = 1596 IU/mg, purity equal to 1596 ÷ 1782 = 0.895 mg PenG /mgKPenG)			
	d.	Make a 1 mg/mL stock solution by adding drug (100 mg PenG ÷ item 6c) (ex. 100 ÷ 0.895 = 111.7 mg KpenG) to a 100 mL volumetric flask and making up with buffer (item 5). May be stored frozen for later dilution.			

New Snap -2- Rev. 6/03

	е.	. Make 1:100 serial dilution of the stock solution, using 100 mL volumetric flask (10 $\mu$ g/mL stock). May be stored frozen for later dilution.			
	f.	Make the final dilution in inhibitor free milk (item 7) to yield the 5.0 ppb standard (ex. 0.5 mL of item 6e. + 999.5 mL milk = 1000 mL of 5 ppb PenG <sup>-</sup> )			
		Date prep			
	g.	Test for suitability each time prepared, must produce appropriate reaction, records maintained			
	h.	Store 5.0 ppb control at 0-4.4C for no more than 2 days. <b>Do not freeze</b> .			
7.	Inh	ibitor Free Raw Milk (Negative Control)			
	a.	Test for suitability each time prepared, must produce appropriate reaction; records maintained			
		TECHNIQUE			
8.	Daily Performance and Operation Check (see App. N GR item 10)				
		Read positive and negative check set devices.  Both devices must read within the limits on the check set devices			
	Positive Range Negative Range				
	If check sets fail, call IDEXX before proceeding				
9.	Tes	t Procedure			
	a.	Set out required number of SNAP™ devices, sample tubes and pipets for the samples to be tested. Discard unused, un-refrigerated devices at the end of the day			
	b.	Pre-warm heater block(s) to 45±5C, hold at 45C for at least 5 minutes			
		1. Check initial pre-heating with a reference thermometer, records maintained			

New Snap -3- Rev. 6/03

	<ol> <li>Continuous use block heaters, check temperature daily with reference thermometer, records maintained</li> </ol>		
c.	Label each device and each sample tube		
d.	Place devices on incubator block(s)		
e.	Mix samples/controls by shaking 25 times in 7 sec through 1 ft arc, use within 3 minutes		
f.	Look for blue reagent pellet in bottom of tube, if not there tap to bring pellet down		
g.	Remove and discard sample tube caps		
h.	With pipets provided, draw up controls or samples (Draw up, avoiding foam and bubbles, expel and draw up again) to the indicator lines and carefully add all of the control or sample milk to the appropriately labeled tubes. (Screening only)		
i.	Or, using fixed volume pipettor (item 3c), draw up 450 µL of controls and samples (draw up, avoiding foam and bubbles, expel and draw up again) and carefully add to the appropriately labeled tubes		
j.	Use clean pipet (or tip) for each control and sample _		
k.	Agitate sample tube to dissolve reagent pellet		
1.	<pre>Incubate tube(s) in heater block next to device with the corresponding ID</pre>		
m.	Incubate tubes for 5 minutes (use timer) at 45±5C		
n.	After incubation, pour contents of tubes into sample well of device		
ο.	Watch blue activation circle, as it <b>begins</b> to become white push the Activator firmly until it "snaps" flush with the body of the SNAP™ device (device remains on heater block)		
p.	Incubate device for 4 minutes (use timer) at 45±5C		
r.	Read IMMEDIATELY with IDEXX Reader for SNAP devices		

New Snap -4- Rev. 6/03

10.	Interpretation			
	a.	the is	control spot is on the top and the test spot on bottom of the Results Window (Correct orientation with activator button to right and sample well left)	
	b.	. Negative result:		
		1.	If test spot is darker than or equal to the control spot, sample is <b>Negative (NF)</b>	
	c.	Pos	itive result:	
		1.	If test spot is lighter than control spot, sample is <b>Initial Positive</b>	
			<del>-</del>	
	d.		XX Reader for SNAP devices automatically prints ults as <b>Positive</b> (initial) or <b>Negative (NF)</b>	
11.	l. Confirmation of Initial Positive Samples (see App. N GR item 11)			
12.	2. Reporting (see App. N GR item 12)			